AGENCY USE ONLY				
PERMIT NO.:	Date Rec'd.:	Amount Rec'd.:	Check No.:	Rec'd By:
MTG 010198	1/20/14	-0-		DD

Montana Department of
ENVIRONMENTAL QUALITY

WATER PROTECTION BUREAU

FORM
NOI

Notice of Intent (NOI) for Montana Pollution Discharge Elimination System Application for New and Existing Concentrated Animal Feeding Operations

The Application form is to be completed by the owner or operator of a Concentrated Animal Feeding Operation (CAFO) or Aquatic Animal Production Facility. Please read the attached instructions before completing this form. You must print or type legibly; forms that are not legible or are not complete will be returned. You must maintain a copy of the completed application form for your records.

Section A - Application Status *(Check one)*:

- ☐ New — No prior application submitted for this site.
- ☐ Resubmitted — Permit Number: MTG _____
- ☒ Renewal — Permit Number: MTG 010198
- ☐ Modification — Permit Number: MTG _____

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Section B - Facility or Site Information (*See instruction sheet.*):

Site Name K & K Livestock, Inc

Site Location 6 miles east of Hysham, Mt

Nearest City or Town Sanders, Mt County Treasure

Latitude _____ Longitude _____

Date Facility began operation? 2002 Permit 1968 start up

Is this facility or site located on Indian Lands? ☐ Yes ☒ No

Section C - Applicant (Owner/Operator) Information:

Owner or Operator Name Kenneth Rogers

Mailing Address 113 Mackley Rd

City, State, and Zip Code Sanders, Mt 59076

Phone Number 406-342-5845

Is the person listed above the owner? ☒ Yes ☐ No

Status of Applicant *(Check one)* ☐ Federal ☐ State ☒ Private ☐ Public ☐ Other (specify) _____

COPY

JLP 1/21/14

Section D - Existing or Pending Permits, Certifications, or Approvals: ☐ None

☒ MPDES _____ ☐ RCRA _____

☐ PSD (Air Emissions) _____ ☐ Other _____

☐ 404 Permit (dredge & fill) _____ ☐ Other _____

Section E – Standard Industrial Classification (SIC) Codes:

Provide at least one SIC code which best reflects the activity of project described in Section H.			
Code	**A. Primary**	**Code**	**B. Second**
1		2	
Code	**C. Third**	**Code**	**D. Fourth**
3		3	

Section F - Facility or Site Contact Person/Position:

Name and Title, or Position Title Kenneth Rogers

Mailing Address 113 Mackley Rd

City, State, and Zip Code Sanders, MT 59076

Phone Number 406-342-5845

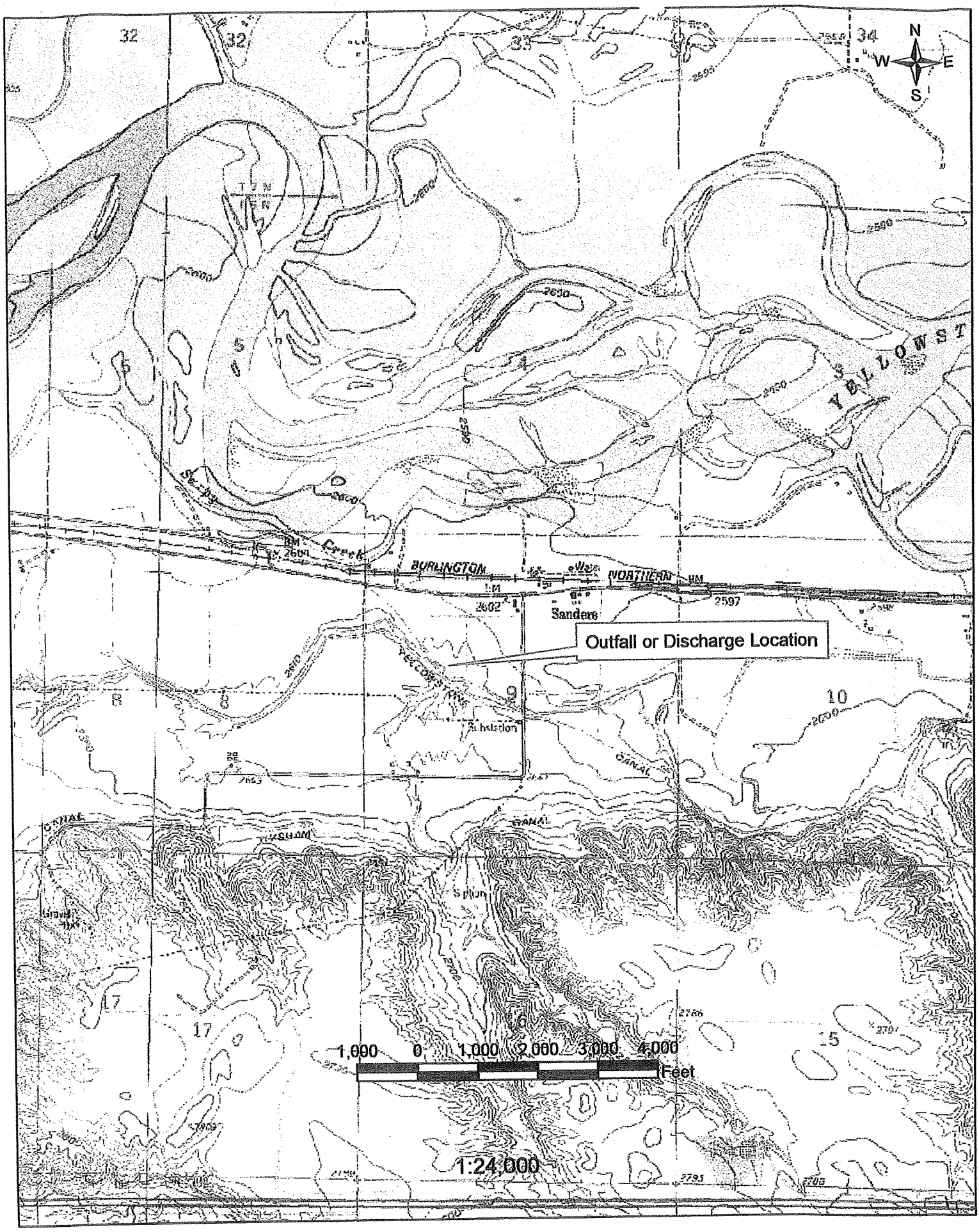
Section G – Receiving Surface Waters(s):

Outfall/Discharge Locations: For each outfall, List latitude and longitude to the nearest second and the name of the receiving waters

Outfall Number	Latitude	Longitude	Receiving Surface Waters
001	46°17'14.42"N	109°6'24.19"W	Yellowstone River
002			
003			
004			
005			

Map: Attach a topographic map extending one mile beyond the property boundaries or the site activity identified in Section B depicting the facility or activity boundaries, major drainage patterns, and the receiving surface waters, stated above. Also identify the specific location of the production area, and land application area(s).

Is the receiving water on the 303(d) list for nutrients (nitrogen and/or phosphorus) ☐ Yes ☒ No


N
W
E
S
Outfall or Discharge Location
Sanders
BURLINGTON
NORTHERN
YELLOWST
CANAL
1,000 0 1,000 2,000 3,000 4,000
Feet
1:24,000


N
SCALE: 1:24,000 OR 1 INCH = 1,760 FT. OR 2.64" = 1 MILE

Section H – Concentration Animal Feeding Operation Characteristics

Waste Production, Storage and Disposal

Animal type	Number in Open Confinement	Number Housed Under Roof
☐ Mature Dairy Cows	-0-	-0-
☐ Dairy Heifers	-0-	-0-
☐ Veal Calves	-0-	-0-
☐ Cattle (not dairy or veal)	up to 1300	-0-
☐ Swine (55 lbs or over)	-0-	-0-
☐ Swine (55 lbs or under)	-0-	-0-
☐ Horses	3	
☐ Sheep or Lambs	0	0
☐ Turkeys		
☐ Chickens (broilers)		
☐ Chickens (layers)		
☐ Ducks		
☐ Other (Specify:_____)		
☐ Other (Specify:_____)		
☐ Other (Specify:_____)		

Manure, Litter and/or Wastewater Production and Use.

How much manure, litter, and process wastewater is generated annually by the facility?

Solid (tons): 750 Liquid/Slurry (gallons): -0-

If land applied, how many acres of land under control of the permit applicant are available to apply the manure, litter, or process wastewater generated from the facility? (Note: Do not include setback distances in available acreage

417 Acres

How much manure, litter, and process wastewater is transferred to other persons per year? (estimated) Solid (tons): -0- Liquid/Slurry (gallons): -0-

Were the containment structures built after February 2006? NO

yes ☐ Do the waste containment structures have 10 feet of separation between the pond bottom and any bedrock formations?

yes ☐ Do the waste containment structures have 4 feet of separation from the pond bottom and any ground water?

yes ☐ Were any of the waste containment structures built within 500 feet of any existing well?

Type of Containment/Storage	Total Capacity	Units (gallons or tons)	Days of Storage
☐ Anaerobic Lagoon			
☐ Storage Pond #1	2.4AF		
☐ Storage Pond #2	3.8AF		
☐ Storage Pond #3	2.2AF		
☐ Storage Pond #4	.09AF		
☐ Storage Pond #5	.2 AF		
☐ ~~Above Ground Storage Tank~~ Pon 6	.3 AF		
☐ ~~Below Ground Storage Tank #1~~ Pond 7	.5 AF		
☐ ~~Below Ground Storage Tank #2~~ Pond 8	3.9 AF		
☐ ~~Underfloor Pits~~ Pond 9	2.0 AF		
☐ Roofed Storage Shed			
☐ Concrete Pad			
☐ Impervious Soil Pad			
☐ Other (Specify:)			
☐ Other (Specify:)			

Physical Data for CAFO

Nutrient Management Plan

All Concentrated Animal Feeding Operations seeking permit coverage after July 31, 2007 are required to complete and implement a Nutrient Management (NMP). The NMP must be submitted to the Department using the form provided by the Department (Form NMP). Check the box below that applies and provide the required information. The NMP must be developed in accordance with ARM 17.30.1334 and implemented upon the effective date of permit coverage. (Check One)

☐ Does the facility have an NMP?

Date NMP was developed: 2002

Date NMP was last modified: 2008

☐ NMP has not been prepared; provide detailed explanation below

Section I – Supplemental Information

Section J - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA] Kenneth Rogers K & K Livestock, Inc

A. Name (Type or Print) President	
B. Title (Type or Print)	C. Phone No. 406-342-5845
D. Signature Kenneth Rogers	E. Date Signed 9-13-2013

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (NOI) and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

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AGENCY USE ONLY				
PERMIT NO.:	Date Rec'd.:	Amount Rec'd.:	Check No.:	Rec'd By:
MTG010198	11/25/13	0		

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Montana Department of ENVIRONMENTAL QUALITY

WATER PROTECTION BUREAU

FORM **NMP**

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For filling out Form NMP," found at the back of this form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A – NMP Status:

- ☐ New — No prior NMP submitted for this site.
- ☒ Resubmitted — Previous NMP found incomplete. 11/25/13
- ☐ Modification — Change or update to existing NMP.
- ☐ New 2013 — New 2013 version of NMP.

Section B – Facility Information:

Facility Name K & K Livestock, Inc

Facility Location 113 Mackey Rd. 6 miles East of Hysham

Nearest City of Town Sanders County Treasure

Section C – Applicant (Owner/Operator Information):

Owner or Operator Name Kenneth Rogers

Mailing Address 113 Mackey Rd.

City, State, and Zip code Sanders, MT 59076

Facility Phone Number 406 - 342 - 5845

Email Krogers @ rangeweb.net.

COPY

Section D – NMP Minimum Elements:

1. Livestock Statistics		
Animal Type and number of animals	**# of Days on Site (per year)**	**Annual Manure Production (tons, cu. yds. or gal**
1. Weaning Calves 1000	30 – 180 DAYS	770 Tons
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Method used for estimating annual manure production:
Pens are cleaned Annually - with approx 770 Ton Take out of Pens

2. Manure Handling

a. Describe Manure handling at the facility:
The manure is normally piled up in July and applied By a custom Feedlot cleaning company in October or November. The manure is Tested and applied using Recomendations From our local Co-op for soil and crop needs.

b. Frequency of Manure Removal from confinement areas:
Annually.

c. Is this manure temporarily stored in any location other than the confinement area? ☐ Yes ☒ No
If so then how and where?

d. Is manure stored on impervious surface? ☐ Yes ☒ No
If yes, describe type and characteristics of this surface:
Stored on surfaces clay or clay loam.

3. Waste Control Structures					
Waste Control Structures (name/type)	**Length (ft.)**	**Width (ft.)**	**Depth (ft.)**	**Volume (cubic ft. or gallons)**	**Number of days of storage**
1. Evaporative Pond #1	0.48AC		5FT	2.4AF	
2. " " #2	0.76AC		5FT	3.8AF.	
3. " " #3	0.37AC		6 FT	2.2AF.	
4. " " #4	0.23AC		4FT	0.9AF	
5. " " #5	0.05AC		4ft	0.2AF	
6. " " #6	0.07AC		4ft	0.3AF	
7. " " #7	0.3AC		4FT	0.5AF	
8. " " #8	1.61 AC		6 Ft	3.9AF.	
9. " " #9	0.85AC		6ft	2.0AF.	
10.					
11.					
12.					

What is the 24 hr. 25 yr. storm event at this facility 2.8"

Production area: 221 **acres. Type of lot (dirt or paved):** Dirt

Area contributing drainage form outside CAFO that enters confinement areas and waste storage, conveyance, or treatment structures: -0- **acres.**

What is the annual precipitation during the critical storage period 20.4 Inch.

How much freeboard do the pond(s) have 2 ft

4. Disposal of Dead Animals.

Describe how dead animals are disposed of at this facility:
Any livestock losses in the Feedlot are Disposed of In a Pit that is Covered with Dirt annually. The Pit is located in the South EAST Corner of Sec 9 6N R37E.

5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:
Berms Are used to divert water From Enter Feedlot Areas
Dams on the outside Area Are use to catch water
And Hold it From entering Feedlot Area.

6. Prohibiting Animals and Wastes from Contact with State Waters

Describe how animals and wastes are prohibited from direct contact with state waters:
All wastes From the Feedlot Are caught in the Ponds.
Lots Are Kept clean to Allow run off to go to the Ponds.
Fencing Has been constructed around waterways And Ponds
To Keep livestock AWAY From Drainages

Describe how Chemicals and other contaminants are handled on-site:
All chemical used on Crops are stored Inside A Building
or Are Applied By the Local Co-op Company.

7. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces,, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area: decreasing open lot surface area; repairing of adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Production Area BMP's All Run off From the Feedlot Area will Be stored in the 8 Available Ponds. The lower Feedlot Area Has A pipeline Installed under the YID Irrigation Ditch Allowing water From the Feedlot to Be put on Pasture using gated Irrigation Pipe. Water CAN Be stored And use when needed to Irragate this pasture land.

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

never spray irrigating waste on to frozen ground: consulting with the Department prior to applying any liquid waste to frozen or snow-covered ground; applying wastes at agronomic rates.

Land Application BMP's

No wastes are applied on frozen surfaces

Buffers	☒ Yes ☐ No	**Conservation Tillage**	☒ Yes ☐ No
Constructed Wetlands	☐ Yes ☒ No	**Grass Filter**	☒ Yes ☐ No
Infiltration Field	☒ Yes ☐ No	**Residue Management**	☒ Yes ☐ No
Set backs	☐ Yes ☐ No	**Terrace**	☐ Yes ☒ No
Other examples			

8. Implementation, Operation, Maintenance and Record Keeping – Guidance

The permittee is required to develop guidance addressing implementation of NMP, proper operation and maintenance of the facility, and record keeping as described in Part 2 of the permit.

Has a guidance document been developed for the facility? ☒ Yes ☐ No

Certify the document address the following requirements:

Implementation of the NMP:	☒ Yes ☐ No
Facility operation and maintenance:	☒ Yes ☐ No
Record keeping and reporting	☒ Yes ☐ No
Sample collection and analysis:	☒ Yes ☐ No
Manure transfer	☐ Yes ☒ No

Provide name, date and location of most recent documentation:

DEQ 1-7-09 Huntley ME.

If your answer to any of the above question is no, provide explanation:

All Manure Generated By this Facility is Applied to Cropland owned By Operator.

Section E – Land Application

Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?

☒ Yes If yes, then the information requested in Section E must be provided.

☐ No If no, then provide an explanation of how animal waste at this facility are managed.

Photos and/or Maps

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any downgradient surface waters.
- The location of any downgradient open tile line intake structures
- The location of any downgradient sinkholes
- The location of any downgradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibration procedures:
Custom manure trucks are used. – weights are taken and. Applied By Tons per acre/speed is used to calibrate amount applied

Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to ARM 17.30.1334

Other (describe)
I collect samples in multiple spots and send to Ag Labs For Analysis

Soil Sampling and Analysis Procedures

Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater

Soil samples collection will occur according the methods in ARM 17.30.1334

Other (describe)
Soil Sampling is Done By local Farmers union Co-op.

Phosphorus Risk Assessment

The permittee shall access the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or

may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

Method Used

Indicate which method will be used to determine phosphorus application:

Method A – Representative Soil Sample

Method B – Phosphorus Index

Method A – Representative Soil Sample

a. Obtain one or more representative soil sample(s) from the field per 17.30.1334
b. Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm)
c. Using the results of the Olsen P test, determine application basis according to the Table below.

Soil Test

Olsen P Soil Test Results (ppm)	Application Basis
<25.0	Nitrogen Needs of Crop
25.1 - 100.0	Phosphorus Needs of Crop
100.0 – 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application allowed

Method B – Phosphorus Index

a. Complete a phosphorus Index according to the crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections in Appendix A, please refer to the method as described in Natural Resource Conservation Service (NRCS), Agronomy Technical Note MT-77 (rev3), January 2006.
b. Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus

Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c. Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

Nutrient Budget Worksheet

Field identification: H9, H7, M28 Year: 2014 Crop: Corn

Expected Crop Yield: 26 Ton

Phosphorus index results or Phosphorus application from soil test:)

Method of Application: Broad CAST

When will application occur: Oct - Nov.

Nutrient Budget			Nitrogen-based Application	Phosphorus-based Application	Source of information
1		Crop Nutrient Needs, lbs/acre		9 X 26 = 234	
2	(-)	Credits from previous legume crops, lbs/ac		0	
3	(-)	Residuals from past manure production lbs/acre		15 V . 45 = 6.75	
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre		0	
5	(-)	Nutrients supplied in irrigation water, lbs/acre		0	
6		**= Additional Nutrients Needed, lbs/acre**		227.25 LBS	
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	33.4	19	
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0		1.0	
9		**= Available Nutrients in Manure, lbs/ton or lbs/1000 gal**		19 LBS	
10		Additional Nutrients needed, lbs/acre (calculated above)		227.25 LBS	
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)		19	
12		**= Manure Application Rate, tons/acre or 1000 gal/acre**		11.96 T	

Comments:

AGVISE LABORATORIES

P.O. BOX 510, NORTHWOOD, ND 58267
Northwood: (701) 587-6010
Benson: (320) 843-4109

MANURE REPORT

SAMPLE **K AND K**
TYPE **Solid Manure**
SOURCE **Beef**
STORAGE
LAB NUM **BN421**

N
W E
S

SUBMITTED FOR:
K AND K FEEDLOT

HYSHAM, MT 59038

SUBMITTED BY: **FA3234**
FARMERS UNION-HYSHAM
121 ELLIOTT AVENUE
PO BOX 427
HYSHAM, MT 59038

MOISTURE **17**
DRY MATTER **83**

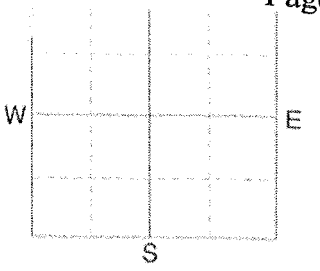
Date Sampled **09/25/13** Date Received **09/19/13** Date Reported **9/26/2013**

	Dry Basis	As Received	lbs/ton
Total Nitrogen (N):		1.67 %	33.4
Ammonium Nitrogen:			
Nitrate Nitrogen:			
Inorganic Nitrogen:			
Organic Nitrogen:			
Phosphate (P2O5):	1.1 %	.96 %	19
Potash (K2O):	2.6 %	2.2 %	44
Sodium:	.51 %	.43 %	8.6
Calcium:	1.5 %	1.3 %	25
Magnesium:	.93 %	.78 %	16
Zinc:	96 ppm	80 ppm	.16
Iron:	6100 ppm	5100 ppm	10
Manganese:	250 ppm	210 ppm	.43
Copper:	30 ppm	25 ppm	.049
Sulfur:	.39 %	.33 %	6.5
Chloride:			
pH:			
Salts:			
Total Carbon:			
Volatile Solids:			

AGVISE LABORATORIES

Soil Analysis by Agvise Laboratories
(http://www.agvise.com)
Northwood: (701) 587-6010
Benson: (320) 843-4109

FIELD ID **SANDERS GYM**
SAMPLE ID
FIELD NAME H9 - H7
COUNTY
TWP RANGE
SECTION QTR ACRES **0**
PREV. CROP



SUBMITTED FOR:
K & K LIVESTOCK

SUBMITTED BY: **FA3234**
FARMERS UNION-HYSHAM
121 ELLIOTT AVENUE
PO BOX 427
HYSHAM, MT **59038**

REF # **9285385** BOX # **0**
LAB # **NW5525**

Date Sampled **02/14/2012** Date Received **02/20/2012** Date Reported **9/27/2013**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
Nitrate	0-6" 12 lb/ac 6-24" 15 lb/ac 0-24" 27 lb/ac	*****			
Phosphorus	Olsen 22 ppm	******	******	******	******
Potassium	180 ppm	******	******	******	******
Chloride	0-24" 40 lb/ac	******	******	******	
Sulfur	0-6" 62 lb/ac 6-24" 360 +lb/ac	******	******	******	******
Boron	1.1 ppm	******	******	*****	
Zinc	1.43 ppm	******	******	******	***
Iron	15.3 ppm	******	******	******	******
Manganese	2.5 ppm	******	******	*******	
Copper	1.14 ppm	******	******	******	
Magnesium	401 ppm	******	******	******	******
Calcium	2771 ppm	******	******	******	******
Sodium	85 ppm	******	*******		
Org.Matter	1.9 %	*******			
Carbonate(CCE)	1.3 %	*******			
Sol. Salts	0-6" 0.38 mmho/cm 6-24" 0.79 mmho/cm	******	*** ******	******	

1st Crop Choice		
YIELD GOAL		
0		
SUGGESTED GUIDELINES		
LB/ACRE		APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

2nd Crop Choice		
YIELD GOAL		
0		
SUGGESTED GUIDELINES		
LB/ACRE		APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

3rd Crop Choice		
YIELD GOAL		
0		
SUGGESTED GUIDELINES		
LB/ACRE		APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 7.9		18.0 meq	(65-75) 76.9	(15-20) 18.5	(1-7) 2.6	(0-5) 2.0	(0-5)

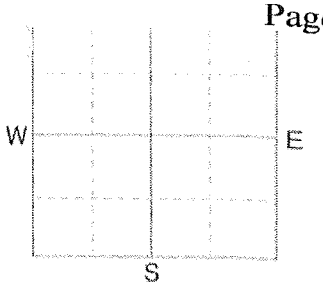
General Comments: Texture is not estimated on high pH soils.

}

AGVISE LABORATORIES

Soil Analysis by Agvise Laboratories
(http://www.agvise.com)
Northwood: (701) 587-6010
Benson: (320) 843-4109

FIELD ID M 2B
SAMPLE ID
FIELD NAME
COUNTY
TWP RANGE 20.89
SECTION QTR ACRES ~~20.4~~
PREV. CROP **Corn-Grain**



SUBMITTED FOR:
K&K LIVESTOCK

SUBMITTED BY: **FA3234**
FARMERS UNION-HYSHAM
121 ELLIOTT AVENUE
PO BOX 427
HYSHAM, MT 59038

REF # **9287337** BOX # **0**
LAB # **NW210244**

Date Sampled **12/18/2012** Date Received **12/21/2012** Date Reported **9/27/2013**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
Nitrate	0-6" 17 lb/ac 6-24" 18 lb/ac 24-36" 8 lb/ac 0-24" 35 lb/ac	*******			
Phosphorus	Olsen 27 ppm	******	******	******	******
Potassium	214 ppm	******	******	******	******
Chloride	0-24" 16 lb/ac	******			
Sulfur	0-6" 28 lb/ac 6-24" 78 lb/ac	******	******	*****	
Boron	0.6 ppm	********	***		
Zinc	0.82 ppm	******	******	***	
Iron	24.8 ppm	******	******	******	******
Manganese	3.6 ppm	******	******	******	***
Copper	1.07 ppm	******	******	******	
Magnesium	503 ppm	******	******	******	******
Calcium	1817 ppm	******	******	******	*****
Sodium	58 ppm	********	***		
Org.Matter	1.3 %	*****			
Carbonate(CCE)	0.0 %				
Sol. Salts	0-6" 0.22 mmho/cm 6-24" 0.35 mmho/cm	*****	*******	**	

1st Crop Choice		
Corn-Silage		
YIELD GOAL		
20 Tons		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	173	
P_2O_5	15	Band (2x2) *
K_2O	39	Broadcast
Cl		Not Available
S	10	Broadcast (Trial)
B	0	
Zn	3	Broadcast
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime	-	

2nd Crop Choice		
YIELD GOAL		
0		
SUGGESTED GUIDELINES		
LB/ACRE		APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

3rd Crop Choice		
YIELD GOAL		
0		
SUGGESTED GUIDELINES		
LB/ACRE		APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 7.1		14.1 meq	(65-75) 64.5	(15-20) 29.8	(1-7) 3.9	(0-5) 1.8	(0-5)

General Comments: Coarse Loams (CEC range = 11 to 20) (Medium)

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 72 K2O = 166 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

}

Section F - CERTIFICATION

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
Kenneth R Rogers K&K Livestock, Inc	
B. Title (Type or Print)	**C. Phone No.**
President	406-342-5845
D. Signature	**E. Date Signed**
Kenneth Rogers	11-20-2013

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED
NOV 25 2013
PERMITTING & COMPLIANCE

Fields outlined can be used for Manure Application

USDA

United States Department of Agriculture Farm Service Agency

FSA

Montana 2012
Treasure County

Farm: 791
Tract: 771

Legend
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions
- CLU Field Boundary
- Rangeland/Forest
- Non Ag Use

Mar 22, 2012

N W E S

1:8,500

USDA FSA maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership, rather it depicts the information provided directly from the producer and/or the 2011 ortho rectified imagery for Montana. The producer accepts the data 'as is' and assumes all risks associated with its use. The USDA Farm Service Agency assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside of FSA Programs. Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

USDA

United States Department of Agriculture Farm Service Agency

FSA

Montana 2012
Treasure County

Farm: 791
Tract: 1754

Legend

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions
- CLU Field Boundary
- Rangeland/Forest
- Non Ag Use

Mar 22, 2012

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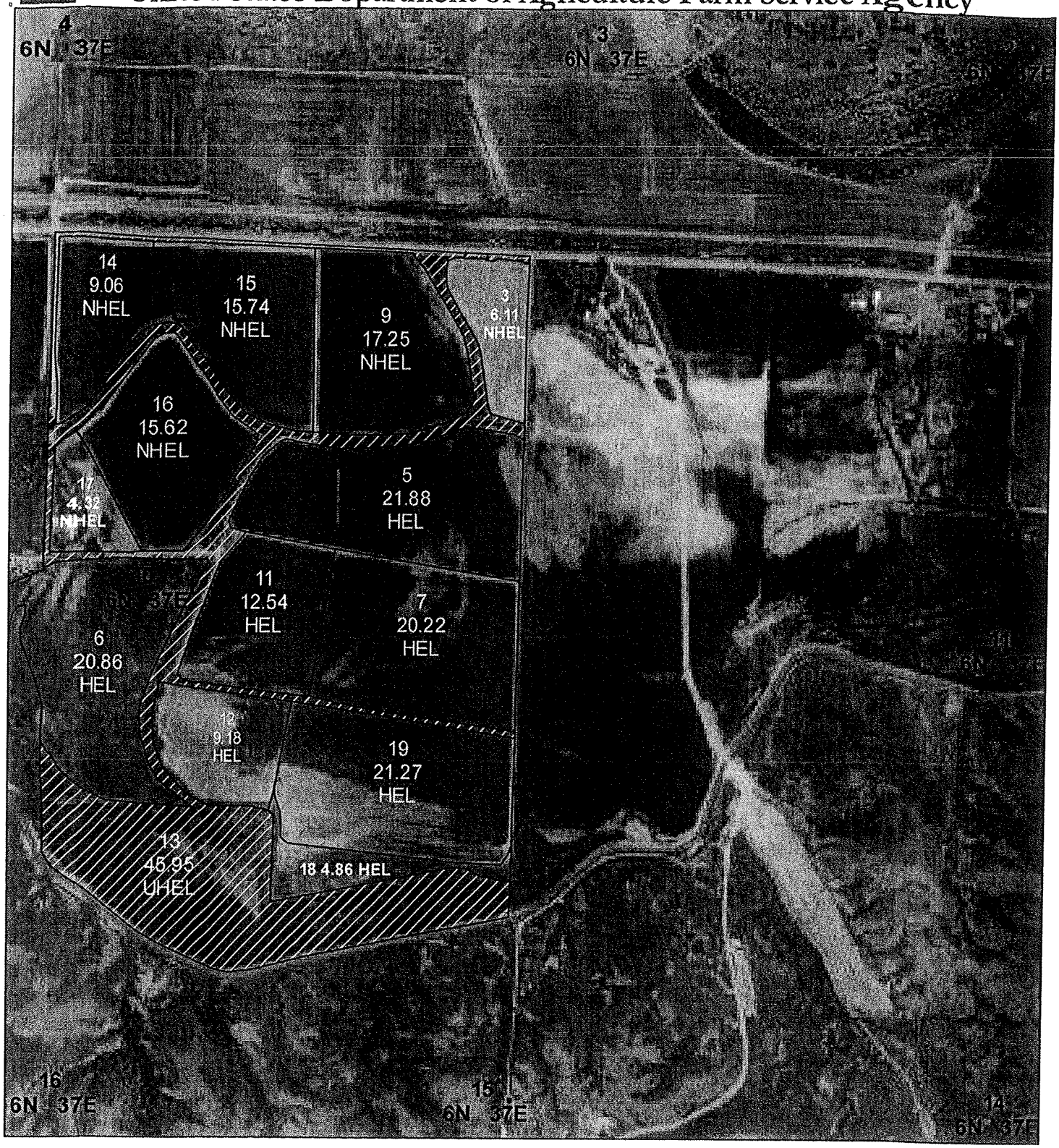
USDA

United States Department of Agriculture Farm Service Agency



FSA

Montana 2012

Treasure County

Farm: 791

Tract: 460

Legend

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions
- CLU Field Boundary
- Rangeland/Forest
- Non Ag Use

Mar 22, 2012

N W E S

1:8,500

USDA

United States Department of Agriculture Farm Service Agency

FSA

Montana 2012
Treasure County

Farm: 791
Tract: 1948

Legend

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions
- CLU Field Boundary
- Rangeland/Forest
- Non Ag Use

Mar 22, 2012

N W E S

1:8,500

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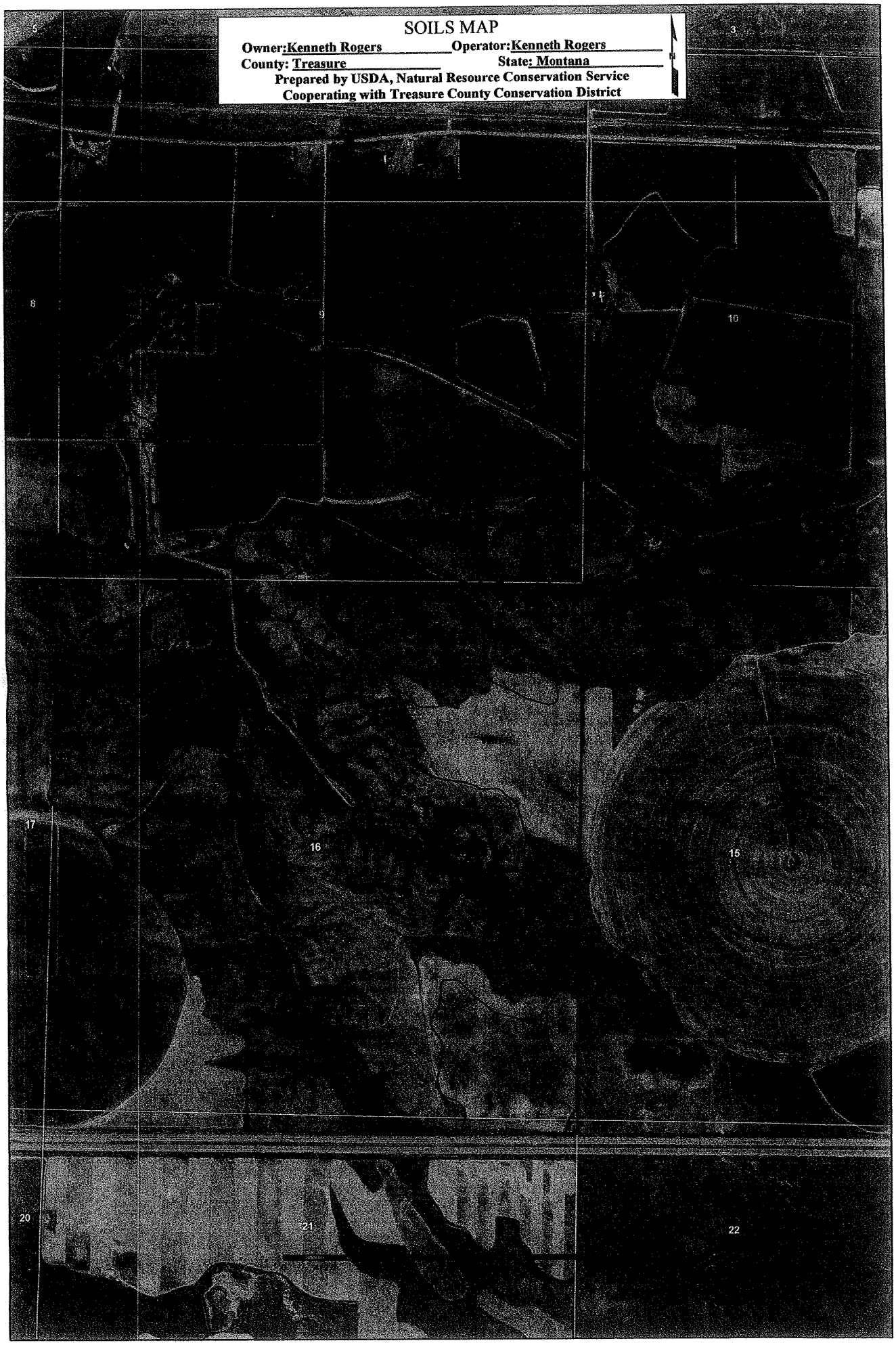
SOILS MAP

Owner: Kenneth Rogers **Operator:** Kenneth Rogers

County: Treasure **State:** Montana

Prepared by USDA, Natural Resource Conservation Service
Cooperating with Treasure County Conservation District



Treasure County, Montana (MT103)

Map Unit Symbol	Map Unit Name
Cb	Cherry clay, 1 to 3 percent slopes
Fs	Fort Collins loam, sandy substratum, 0 to 1 percent slopes
Ft	Fort Collins loam, sandy substratum, 1 to 3 percent slopes
Go	Glendive loam
Hf	Havre clay loam, saline
Hm	Havre loam, saline
Ho	Havre and Lohmiller soils
Hr	Havre and Lohmiller soils, 15 to 35 percent slopes
Hw	Hilly gravelly land
La	Laurel clay loam
Lc	Lismas clay
Ln	Lohmiller clay, wet
Na	Nihill gravelly loam
Nn	Nunn clay loam, 0 to 1 percent slopes
No	Nunn clay loam, 1 to 3 percent slopes
Nu	Nunn clay loam, 3 to 8 percent slopes
Tu	Treasure fine sandy loam, 4 to 8 percent slopes
Wm	Wanetta loam, deep, 2 to 4 percent slopes